

97-148588/14 B04 D16 WAKO PURE CHEM IND LTD 95.07.13 95JP-177444 (97.01.28) C12N 15/09, C07H 21/04, C12N 1/21, 9/04 (C12N 15/09, C12R 1:91) (C12N 1/21, C12R 1:19) (C12N 9/04, C12R 1:91) (C12N 9/04, C12R 1:19) (Pro)phenol oxidase derived from a domestic silkworm - useful as a labelling oxidase and in pro-phenol oxidase activation system for detection of microorganisms C97-047464	WAKP 95.07.13 *JP 09023886-A B(4-E3E, 4-E8, 4-F1E, 4-L3A) D(5-C3B, 5-H4, 5-H12A, 5-H12E, 5-H17A3) .4
Prophenol oxidase or phenol oxidase having the 685 or 634 amino acid sequences given in the specification respectively, are new. Also claimed are: (1) DNA's encoding the above prophenol oxidase or phenol oxidase, based on the 2408 bp sequence given in the specification; (2) a recombinant vector contg. the DNA's of (1); (3) host cells transformed with the recombinant vector of (2); and (4) prodn. of the above prophenol oxidase or phenol oxidase by culturing the host cells and recovering the enzyme from the resulting culture.	USE The prophenol oxidase and phenol oxidase are derived from a domestic silkworm. The phenol oxidase may be used as a novel labelling oxidase. The elucidation of the primary structure of the prophenol oxidase will contribute to the reconstitution of a prophenol oxidase activation system which can be applied to the detection of microorganisms by measurement of β -1,3-glucan and peptide glycan. PREPARATION Prodn. of the prophenol oxidase or the phenol oxidase is carried out according to conventional genetic means, i.e. by cloning the DNA in a plasmid, transformation of hosts with the plasmid, and prodn. of the oxidase in the hosts. (GS4) (18pp111DwgNo.0/2)
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